

ROCK-PAPER-SCISSORS

# Science at home

A candle can teach you a thing or two about motion.  
And a bowl of sand, about displacement. Here's how!

## Candle see-saw



1 Sharpen the base of the candle to expose wick.

2 Poke a needle through the middle of the candle.

The candle should be equally balanced on both sides of the needle.

3 Tape long safety pins on two cups to make a stand.

4 Place the ends of needle in the eyes of the pins.

5 Light candle at both ends.

As the wax drops from both ends of the candle, its weight will shift and a see-saw motion will set in.

## sand sucks



1 Fill 3/4 bottle with sand.



2 Add water until the sand is saturated.

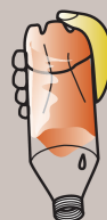


Add some more water so that a little floats on top.

3 On pressing the bottle, more water should ooze out from the sand. Instead, the extra water is sucked in!



4 Upturn the pressed bottle. Surprisingly, no water falls!



On pressing, the sand structure breaks creating inner cavities that suck in the extra water